

$$4. A) MR = 100 - 2q = 20 = MC \Rightarrow q = 40 \quad p = 60$$

$$MC = \frac{60 - 20}{60} = \frac{2}{3} \quad \pi = 40 \times 60 - (30 + 20 \times 40) = 1570$$

$$B) \frac{1}{2} \times 40 \times 40 = 800 \quad C) = \frac{(60 - 20)}{60} = \frac{2}{3}$$

$$\Phi \quad MR = MC + 10$$

$$D) \begin{cases} 100 - 2q = 30 & q = 35 \quad p = 65 \\ \pi = (35 \times 65) - (30 + 20 \times 35) - 10 \times 35 = 1195 \end{cases}$$

$$E) (1 - 10\%)MR = MC \quad \text{d. } q(100 - 2q) = 20 \quad q = \frac{550}{9} \quad p = 350$$

$$F) 1570 - 1000 = 570$$

$$G) ~~0.8~~ \cdot 0.8 \times 1570 = 1256$$

$$H) (80 \times 20) - (30 + 20 \times 80) = -30 \Rightarrow \text{D (無損)}$$

$$5. MR = P \left[1 - \frac{1}{Ed} \right] = 4 \quad MC \left[1 - \frac{1}{Ed} \right] \quad Ed = \frac{4}{3}$$

$$6. P = a - bq \quad MR = a - 2bq$$

$$MR = MC + t \Leftrightarrow a - 2bq = k + t \quad q = \frac{a - (k + t)}{2b}$$

$$P = \frac{a + k + t}{2} \quad P_0 = \frac{a + k}{2} \quad P^* - P_0 = \Delta P = \frac{t}{2}$$

$$17. MC_A = MC_B = MR$$

$$2q_A = 8q_B = 280 - 2q_A - 2q_B$$

$$q_A = 40$$

$$q_B = 20$$

$$P = 220$$